

Abstract

Rotation rate sensor with a vibrational gyroscope

In a rotation rate sensor having a vibrational gyroscope which is part of at least one control loop which excites the vibrational gyroscope by supplying an excitation signal at its natural frequency, the vibrational gyroscope providing an output signal from which a noisy rotation rate signal is derived, the noisy rotation rate signal is supplied to inputs on a low pass filter with controllable bandwidth and on a bandpass filter. The output of the bandpass filter is connected to a control input on the low pass filter via a threshold value circuit.

Figure 2